

August 9, 1939

CLASSIFICATION AND TOLERANCES FOR LABORATORY WEIGHTS THAT WILL
BE ACCEPTED FOR CERTIFICATION BY THE NATIONAL BUREAU OF STANDARDS

Class M. Weights of this class are required to be of a single piece, without adjusting cavity, of non-magnetic material, either practically non-oxidizable or plated with such metals as gold, platinum, rhodium, etc., and otherwise suitable for the most reliable reference standards or for weighings of extreme precision.

Class S. Weights of this class may be of the common screw-knob type, but must be of material that is non-magnetic, and practically non-oxidizable, or plated with such material, or lacquered, and otherwise suitable for laboratory work of the accuracy commonly needed in high grade analytical work.

Class S2. Weights of this class are very similar to those of Class S in material and construction, but the accuracy is that suitable for "second quality analytical" weights, or "students' sets".

METRIC WEIGHTS: CLASSES M, S AND S2

Denomination	Tolerance	
	Classes M & S	Class S2
Kilograms	Milligrams	Milligrams
20	100	500
10	50	250
5	30	150
2	10	50
1	5	25
Grams		
500	3	15
200	1.0	5
100	0.5	2.5
52	.3	1.5
50	.3	1.5
26	.2	1.0
20	.2	1.0
13	.15	0.75
10	.15	.75
5	.15	.75
2	.10	.50
1	.10	.50
Milligrams		
500	.05	.25
200	.05	.25
100	.05	.25
50	.03	.15
20	.03	.15
10	.02	.10
5	.02	.10
2	.01	.05
1	.01	.05
0.5	.01	
.2	.01	
.1	.01	

